

Determining the Correlation between OD600 and Cell Concentration for Aerobic and Anaerobic Cultures

To generate the trendline, 5 mL sample of full grown AMB-1 was obtained and refrigerated in a sterile 5 mL cryogenic vial. 200 μ L of this sample was then placed in a 96 well plate and absorbance was measured. A 20 μ L sample of the culture was then placed under a total magnification of 400X on a hemacytometer and counted. The cell concentration was then calculated via cell count. The original sample of bacteria was then diluted with E-MSGM to provide a distribution of OD600 vs. cell concentration measurements.